Figure 1 1/10

1 FPTIPLSRLF DNASLRAHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT

- 51 SLCFSESIPT PSNREETQQK SNLELLRISL LLIQSWLEPV QFLRSVFANS
- 101 LVYGASDSNV YDLLK DLEEGIQ TLMGRLED GSPRTGQIFK QTYSKFDTNS
- 151 HNDDALLKNY GLLYCFRKDM DKVETFLRIV QCRSVEGSCG F

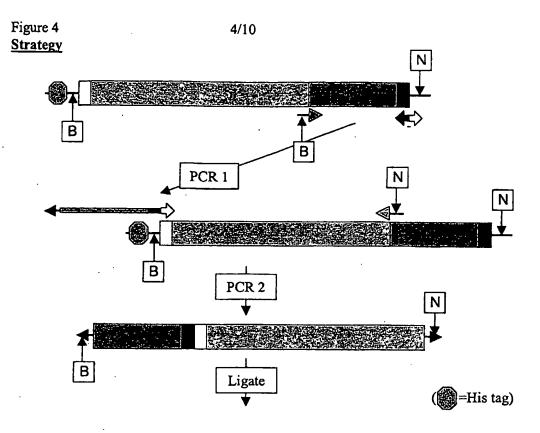
Figure 2

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Figure 3

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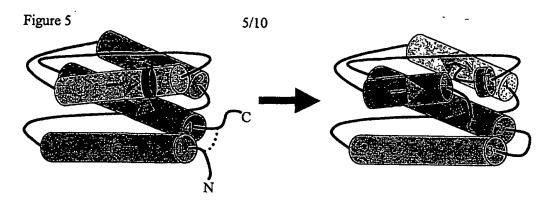
MDLWQLLLTLALAGSSDAFSGSEATAAILSRAPWSLQSVNPGLKTNSSKEPKFTKCRSPER ETFSCHWTDEVHHGTKNLGPIQLFYTRRNTQEWTQEWKECPDYVSAGENSCYFNSSFTSI WPYCIKLTSNGGTVDEKCFSVDEIVQPDPPIALNWTLLNVSLTGIHADIQVRWEAPRNADI QKGWMVLEYELQYKEVNETKWKMMDPILTTSVPVYSLKVDKEYEVRVRSKQRNSGNYG EFSEVLYVTLPQMSQFTCEEDFYFPWLLIIIFGIFGLTVMLFVFLFSKQQRIKMLILPPVPVPK IKGIDPDLLKEGKLEEVNTILAIHDSYKPEFHSDDSWVEFIELDIDEPDEKTEESDTDRLLSSD HEKSHSNLGVKDGDSGRTSCCEPDILETDFNANDIHEGTSEVAQPQRLKGEADLLCLDQKN QNNSPYHDACPATQQPSVIQAEKNKPQPLPTEGAESTHQAAHIQLSNPSSLSNIDFYAQVSD ITPAGSVVLSPGQKNKAGMSQCDMHPEMVSLCQENFLMDNAYFCEADAKKCIPVAPHIKV ESHIQPSLNQEDIYITTESLTTAAGRPGTGEHVPGSEMPVPDYTSIHIVQSPQGLILNATALPL PDKEFLSSCGYVSTDQLNKIMP



- 1) PCR1 with forward (GHPermN0x+) and reverse (GHPermL01-) primers.
- 2) Purify PCR product.
- 3) PCR2 with product from PCR1 and reverse primer (GHPermC0x-).
- 4) Purify PCR product.
- 5) Digest PCR product and suitable vector using BamHI and Not1.
- 6) Ligate PCR product into vector.

## Primer Pairs/PCRs

	First PCR		Second PCR	
	Forward	Reverse	Forward	Reverse
GHCP02	GHPermN01+	GHPermL01-	PCR1 product	GHPermC02-
GHCP03	GHPermN01+	GHPermL01-	PCR1 product	GHPermC03-
GHCP04	GHPermN04+	GHPermL01-	PCR1 product	GHPermC01-
GHCP05	GHPermN04+	GHPermL01-	PCR1 product	GHPermC02-
GHCP06	GHPermN06+	GHPermL01-	PCR1 product	GHPermC06-
GHCP07	GHPermN07+	GHPermL01-	PCR1 product	GHPermC07-



Growth Hormone

 TTCCCAACCATTCCCTTATCCAGGCTTTTTGACAACGCTAGTCTCCGCGC
CCATCGTCTGCACCAGCTGGCCTTTGACACCCTACCAGGAGTTTGAAGAAG
CCTATATCCCAAAGGAACAGAAGTATTCATTCCTGCAGAACCCCCAGACC
TCCCTCTGTTTCTCAGAGTCTATTCCGACACCCTCCAACAGGGAGGAAAC
ACAACAGAAATCCAACCTAGAGCTGCTCCCCATCTCCTGCTGCTCATCC
AGTCGTGGCTGGAGCCCGTGCAGTTCCTCAGGAGTGTCTTCGCCAACAGC
CTGGTGTACGGCGCCTCTGACAGCAACGTCTATGACCTCCTAAAGGACCT
AGAGGAAGCCATCCAAACGCTGATGGGAGGCTGGAAGATGCAGCCCCC
GGACTGGGCAGATCTTCAAGCAGACCTACAGCAAGTTCGACACAAACTCA
CACAACGATGACGCACTACTCAAGAACTACGGGCTGCTCTACTGCTTCAG
GAAGGACATGGACAAGGTCGAGACATTCCTGCGCATCGTGCAGTGCCGCT
CTGTGGAGGGCAGCTGTGGCTTC



GH\_CP01

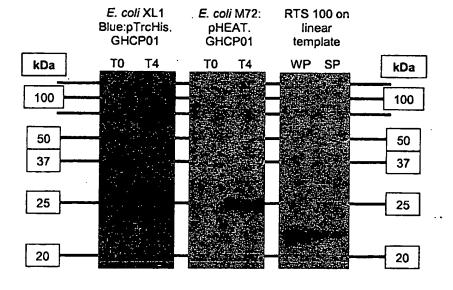
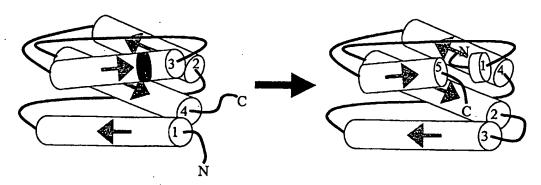


Figure 7

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## GH121 to GH118



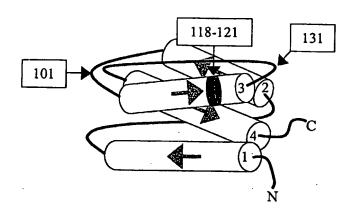
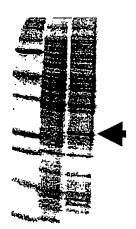


Figure 8

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TABLE 1

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Primer Name	Sequence (5' → 3')	
GH_CP01For	gctaggatccaacccttATCCAAACGCTGATGG	33
GH_CP01Link	tggataagggaatggtGCTGCCTCCACAGAG	32
GH_CP01Rev	gtcaactggtca <u>gcggccgc</u> cCTCTAGGTCCTTTAGGAG	39

## TABLE 2

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Primers (all 5'→3	'')
Old Termini Link	
GHPermL01+	ctctgtggagggcagcACCATTCCCTTATCCA (32)
GHPermL01-	tggataagggaatggtGCTGCCTCCACAGAG (32)
GHCP01 (121→1)	
GHPermN01+	gctaggatccaacccttATCCAAACGCTGATGG (33)
GHPermC01-	gtcaactggtcagcggccgccCTCTAGGTCCTTTAGGAG
(39)	
GHCP02 (121→11	(9)
GHPermN01+	gctaggatccaacccttATCCAAACGCTGATGG (33)
GHPermC02-	gtcaactggtca <u>gcggccgc</u> c <b>TTCCTCTAGGTCCTTTAGG</b>
(40)	
GHCP03 (121→12	
GHPermN01+	gctaggatccaacccttATCCAAACGCTGATGG (33)
GHPermC03-	gtcaactggtcagcggccgccGCCTTCCTCTAGGTCC (37)
GHCP04 (120→11	
GHPermN04+	gctaggatccaacccttGGCATCCAAACGCTGATGG (36)
GHPermC01-	gtcaactggtcagcggccgccCTCTAGGTCCTTTAGGAG
(39)	
GHCP05 (120→11	(9)
GHPermN04+	gctaggatccaacccttGGCATCCAAACGCTGATGG (36)
GHPermC02-	gtcaactggtcageggeegee <b>TTCCTCTAGGTCCTTTAGG</b>
(40)	
GHCP06 (102→10	
GHPermN06+	gctaggatccaaccctt <b>GTGTACGGCGCCTCTGACAGC</b>
(38)	
GHPermC06-	gtcaactggtcagcggcgcGCTGTTGGCGAAGACACTCC
(41)	
CITCD07 (122 \ 12	
GHCP07 (132→13	
GHPermN07+	gctaggatccaacccttAGCCCCCGGACTGGGCAG (35)
GHPermC07-	gtcaactggtcagcggccgccATCTTCCAGCCTCCCCATC
(40)	